Guidance for country-level TB modelling







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ISBN 978-92-4-151452-1

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Cataloguing-in-Publication (CIP) data. CIP data are available at http://apps.who.int/iris.

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Designed by minimum graphics Cover designed by Andrew Siroka Printed in Spain

WHO/HTM/TB/2018.21

Contents

Acknowledg	gem	nents	v
Abbreviatio	ns		vi
Executive su	umn	nary	1
Chapter 1: Introduction			4
1.	.1	Policy context	4
1.	.2	Rationale for modelling	5
1.	.3	Demand for modelling	5
1.	.4	Current challenges	6
1.	.5	Existing guidance	7
1.	.6	This guidance	7
В	Sox 1	1.1 When to use a model	8
Chapter 2: Development process, scope and target audience			9
2	.1	Process and stakeholders	9
2	.2	Scope	9
2	.3	Target audience	10
Chapter 3: Principles and good practices for country-level TB modelling			11
3	.1	Principle 1 – Relevance	15
3	.2	Principle 2 – Realism	16
3	.3	Principle 3 – Appropriateness of model structure	18
3	.4	Principle 4 – Consideration of all evidence	20
3	.5	Principle 5 – Validation	22
3	.6	Principle 6 – Informativeness	23
3	.7	Principle 7 – Transparency	25
3	.8	Principle 8 – Timeliness	27
3	.9	Principle 9 – Country ownership	28
3	.10	Principle 10 – Iteration	30
Chapter 4: The modelling process			31
Bibliography			34

Acknowledgements

This document was developed by the TB Modelling and Analysis Consortium (TB MAC) and the WHO Global TB Programme, with input from representatives from key external stakeholders (the Global Fund to Fight AIDS, Tuberculosis and Malaria, the World Bank, the Bill & Melinda Gates Foundation, the United States Agency for International Development, and the Stop TB Partnership), leading TB modelling groups, technical experts and country-level TB policy and programme staff. Preparation of this guidance was led by Nicolas A Menzies, C Finn McQuaid, Gabriela B Gomez and Rein MGJ Houben.

Preparation of this guidance was led by Nicolas A Menzies, C Finn McQuaid, Gabriela B Gomez and Rein MGJ Houben. Versions of this guidance were reviewed by a range of individuals involved with supporting or participating in country TB policy-making, as well as technical and subject-matter experts. We would like to thank Sevim Ahmedov, Nimalan Arinaminpathy (Nim Pathy), Hassan Bassam, Anna Bershteyn, Vineet Bhatia, Jaap Broekmans, Vineet K Chadha, Stewart Chang, Daniel Chin, Gavin Churchyard, Frank Cobelens, Ted Cohen, Liz Corbett, Lucy Cunnama, Peter Dodd, David Dowdy, Jeffrey Eaton, Katherine Floyd, Nicole Fraser-Hurt, Celina Garfin, Philippe Glaziou, Matt Hamilton, Abiodun Hassan, Nguyen Binh Hoa, Mehran Hosseini, Johannes Hunger, Sarah Jarvis, Michael Kimerling, Joseph Kuye, Hmwe Kyu, Marek Lalli, Emma McBryde, Gesine Meyer-Rath, Charles Ohikhuai, Debora Pedrazzoli, Carel Pretorius, Suvanand Sahu, Andrew Siroka, Charalambos (Babis) Sismanidis, John Stover, Karyn Sutton, James Trauer, Anna Vassall, Bradley Wagner, Philip Welkhoff, Richard White, David Wilson, Shufang Zhang and attendees of the WHO Global Taskforce on TB Impact Measurement, Glion-Sur-Montreux, May 2018.

Abbreviations

DALY	disability-adjusted life years
Global Fund	Global Fund to Fight AIDS, Tuberculosis and Malaria
iDSI	International Decision Support Initiative
LTBI	latent TB infection
NTP	national TB programme
PSA	probabilistic sensitivity analysis
QALY	quality-adjusted life years
SDG	Sustainable Development Goal
ТВ	tuberculosis
TB MAC	TB Modelling and Analysis Consortium
USAID	United States Agency for International Development
WHO	World Health Organization

Executive summary

The use of mathematical modelling to inform and support tuberculosis (TB) policy-making has been encouraged by major funders and adopted by several high-burden countries. These quantitative planning exercises are undertaken to provide evidence for proposed interventions, improve the impact of TB funding and support funding applications. In recent years, a number of technical assistance providers have developed mathematical models and technical assistance capacity to support in-country TB policy decisions, and it is expected that the demand for technical assistance to support TB modelling will increase.

The WHO Global Task Force on TB Impact Measurement provides global oversight to ensure that assessments of progress towards ending TB at global, regional and country levels are as rigorous, robust and consensus based as possible. The Task Force supports countries to improve the analysis and use of TB data for policy, planning and programmatic action, and is committed to the ongoing improvement of model-based policy analysis as a tool for strategic planning and budgeting.

This document aims to provide concrete, pragmatic guidance for how TB modelling and related technical assistance is undertaken to support country decision-making. The target audience for this document are the participants and stakeholders in country-level TB modelling efforts, including the individuals who build and apply models; policy-makers, technical experts and other members of the TB community; international funding and technical partners; and individuals and organizations

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